Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A method for controlling a controlled parameter that affects a target parameter of a target zone, the method comprising:

providing a feedback control loop having a switching controller, a controlled device, and an averaging device, the controlled device having a time constant and a specified operational characteristic, the controlled device having a first operational state and a second operational state;

calculating a time constant for the averaging device based at least on the time constant for the controlled device, and the specified operational characteristic.

- 2. (Original) The method of Claim 1 wherein the specified operational characteristic comprises a minimum amount of time that the controlled device operates before it can be switched between the first operational state and the second operational state.
- 3. (Original) The method of Claim 2 wherein the first operational state comprises the controlled device in an on-condition and the second operational state comprises the controlled device in an off-condition.
 - 4. (Cancelled)
 - 5. (Cancelled)
- 6. (Original) The method of Claim 1 wherein the controlled device comprises a plurality of discrete operating states.
- 7. (Original) The method of Claim 1 wherein calculating the time constant for the averaging device comprises calculating a total time constant and then subtracting the time constant for the controlled device.

- 8. (Original) The method of Claim 1 wherein the averaging device comprises a filter.
 - 9. (Original) The method of Claim 8 wherein the filter is a first order filter.
- 10. (Original) The method of Claim 1 further comprising producing a pulsed output signal for turning the controlled device on and off, the output signal being based on the feedback signal and a desired level for the controlled parameter.
- 11. (Original) The method of Claim 10 wherein the system is an environmental management system and the controlled device is a compressor.
- 12. (Original) The method of Claim 11 wherein the controlled device is an environmental management system and the controlled parameter is a temperature of supply air coming off of a cooling element.
- 13. (Original) The method of Claim 1 wherein the target zone comprises one or more rooms in a building.
- 14. (Original) The method of Claim 1 wherein the feedback control system is an environmental management system, a controlled parameter is a temperature of air exiting a DX coil, and a target parameter is the temperature in the target zone.
- 15. (Original) The method of Claim 1 wherein the step of calculating the time constant for the averaging device is also based on a specified controllable range of the controlled device.
- 16. (Original) The method of Claim 15 wherein the controllable range is about 95 percent.

17. (Original) A system for controlling a controlled parameter that affects a target parameter of a target zone, the system comprising:

a feedback control loop having a switching controller, a controlled device, and an averaging device;

wherein the controlled device includes a time constant and a specified operational characteristic,

wherein the controlled device includes a first operational state and a second operational state;

wherein the averaging device includes a time constant based on the time constant for the controlled device, a controllable range of the controlled device, and the specified operational characteristic.

- 18. (Original) The system of Claim 17 wherein the specified operational characteristic comprises a minimum amount of time that the controlled device operates before it can be switched between the first operational state and the second operational state.
- 19. (Original) The system of Claim 18 wherein the first operational state comprises the controlled device in an on-condition and the second operational state comprises the controlled device in an off-condition.
 - 20. (Cancelled)
 - 21. (Cancelled)
- 22. (Original) The system of Claim 17 wherein the averaging device comprises a filter.
 - 23. (Original) The system of Claim 22 wherein the filter is a first order filter.
- 24. (Original) The system of Claim 17 wherein the controlled device is an environmental management system and the controlled device is a compressor.

- 25. (Original) The system of Claim 17 wherein the controlled device is an environmental management system and the controlled parameter is a temperature of supply air coming off of a cooling element.
- 26. (Original) The system of Claim 17 wherein the target zone comprises one or more rooms in a building.
- 27. (Original) The system of Claim 17 wherein the feedback control system is an environmental management system, a controlled parameter is a temperature of air exiting a DX coil, and a target parameter is the temperature in the target zone.
- 28. (Original) A system for controlling a controlled parameter that affects a target parameter of a target zone, the system comprising:
 - a feedback control loop including:
 - a switching controller;

a controlled device having a time constant, a specified operational characteristic, a controllable range of the controlled device a first operational state, and a second operational state; and

means for averaging a signal with a time constant based on the time constant for the controlled device, the controllable range of the controlled device, and the specified operational characteristic.

- 29. (Original) The system of Claim 28 wherein the means for averaging a signal comprises an averaging device.
- 30. (Original) The system of Claim 29 wherein the averaging device comprises a filter.
- 31. (Original) The system of Claim 30 wherein the filter comprises a first order filter.

32. (Original) A method for controlling a device having discrete operating states that affect a parameter of a target zone having a first time constant, the method comprising:

receiving a signal representative of a measured value of a controlled parameter of the device, the controlled parameter having a second time constant that is smaller than the first time constant;

passing the measured value through an averaging device using a third time constant to provide an averaged value;

producing a control signal representative of a deviation between the averaged value and a desired value of the controlled parameter;

converting the control signal into a pulsed output signal that turns the device on and off.

- 33. (Original) The method of Claim 32 wherein the device is a compressor of an air handling unit and the controlled parameter is a temperature of air coming off an expansion coil coupled to the compressor.
 - 34. (Original) The method of Claim 32 wherein the averaging device is a filter.
 - 35. (Original) The method of Claim 34 wherein the filter is a first order filter.
- 36. (Original) The method of Claim 32 wherein the third time constant is an approximation of the first time constant.
- 37. (Original) The method of Claim 32 wherein the control signal is an analog signal and converting the control signal includes applying a pulse width modulation control scheme.
- 38. (Original) The method of Claim 32 wherein the target zone comprises one or more rooms in a building.
- 39. (Original) The method of Claim 32 wherein the device is part of an environmental control system for a facility.